D-Link®

ADSL Router

DSL-G604T (v.A1)

Wireless ADSL Router

With Built-in 802.11g Wireless LAN & 4-Port Switch

The DSL-G604T is an ADSL Router designed for office use. This router lets you quickly and easily connect to high-speed broadband Internet and share your ADSL line. With a built-in ADSL interface, 802.11g high-speed wireless LAN, 4 10/100BASE-TX Ethernet switch ports and advanced router functions, this device gives your business a convenient and cost-effective way to install a secure, fast network with bottleneck-free link to the outside world.

Simplified Broadband Internet Connection

With this router, you can easily connect to your ADSL broadband line for Internet access in your office or at home. This device automatically creates an IP number and assigns for each user, simplifying everyone's logon operation.

Built-in ADSL Interface and Ethernet Switch Ports

A standard-based ADSL modem in built into this router, making connection to the Internet a breeze. The router also incorporates four 10/100Mbps Ethernet switch ports, providing ready connection for workstations and servers, while saving you the cost and trouble of installing a separate Ethernet switch.

Built-in High-Speed Wireless LAN

The router also provides the latest standard 802.11g high-speed wireless LAN for ready connection to wireless users. With speeds up to 54Mbps and real throughput up to 8 times faster than that of 802.11b, the new wireless LAN provides the performance necessary for bandwidth intensive applications. In addition, it is also compatible with existing 802.11b and 802.11b+, providing you with the ability to communicate with all wireless devices within the 2.4GHz frequency band.

Network Security

The router provides NAT protection for your office and home users from any Internet intruders and hackers, plus VPN pass-through for extra security. It also blocks and redirects certain ports to limit the services that outside users can access your network. Virtual server mapping is used to re-task services to multiple servers. This router can be set to allow separate FTP, Web, and Multiplayer game severs to share the same Internet-visible IP address while still protecting your servers and workstations from hackers.

DMZ Host to Open Public Domain

The router supports constricted DMZ to redirect unknown packets to a dedicated server/PC behind the router, enabling a client (such as a Web server) to fully expose it to the Internet and ensure complete Internet application compatibility. This allows you to set up web sites and e-commerce business from your office while maintaining protection for the rest of your office LAN.

Standards & Features

- *High-speed Internet access*
- *Built-in ADSL interface with widest range of DSLAM interoperability*
- *ADSL (ANSI T1.413 issue 2, G.dmt Annex A, G.lite Annex A) compliant*
- *Built-in 4 10/100BASE-TX Fast Ethernet switch ports*
- *Built-in high-speed 802.11g wireless LAN*
- *Virtual Private Network (VPN) pass-through support*
- *DMZ and Virtual Server Mapping support*
- *Web-based configuration*

DSL-G604T (v.A1)

Technical Specifications

ADSL Router

Router

Interface
- 1 RJ-11 ADSL port
- 4 RJ-45 10/100BASE-TX Fast Ethernet LAN switch ports with auto MDI/MDIX
- 802.11g wireless LAN (backward 802.11b compatible)

Routed Packet Type
IP packets

Routing Protocols & Methods
- RIP v1/v2 and static routing
- Dynamic routing

DHCP Support
- DHCP server (for automatic IP assignment)
- DHCP Client
- DHCP Relay

Security
- VPN support: PPTP/L2TP/IPSec pass-through
- Network Address/Port translation (NAPT)
- Authentication: PAP and CHAP
- DoS (UDP/TCP), detection of known attacks
- ID password authentication

Configuration & Network Management
- HTTP server for web-based management
- TFTP for firmware upgrade
- Remote management through telnet or HTTP
- System logs
- Support UPnP 1.0
- Configuration backup and restore
- Factory reset

Statistics Monitoring
Ethernet, ATM and ADSL statistics

Diagnostic LEDs
- Power
- Status (system)
- ADSL Link/Act
- Ethernet Link/Act
- WLAN

Built-in ADSL Modem

WAN ADSL Line Interface
- Compliant with G.dmt (ITU G.992.1) Annex A over PSTN line
- Compliant with G.lite (ITU G.992.2) Annex A over PSTN line
- Compliant with ANSI T1.413 issue 2

Data Rate (ADSL Standards)
- T1.413/G.dmt, downstream: up to 8Mbps, upstream: up to 1Mbps
- G.lite, downstream: up to 1.5Mbps, upstream: up to 512 Kbps

ATM/ADSL
- ATM signaling: UNI3.0, 3.1 and 4.0
- ATM traffic shaping: UBR, CBR, VBR

Bridged/PPP Support
- Bridged Ethernet over ATM
- Classical IP over ATM
- PPP over ATM
- PPP over Ethernet

Built-in Wireless LAN

Wireless LAN Standards
- 802.11b, 802.11b+
- 802.11g

Data Rates
- 802.11g: up to 54Mbps (6/9/12/18/24/36/48/54Mbps)
- 802.11b+: up to 22Mbps
- 802.11b: up to 11Mbps (1/2/5.5/11Mbps)
- Auto-switch to select 802.11g or 802.11b mode
- Data rate auto fall-back under noisy environment or longer range distance

Transmission Technology
DSSS

RF Frequency Range
2.4 to 2.4835GHz

Operating Channels
- 1 to 11 channels (North America)
- 1 to 13 channels (General Europe)

Data Modulation Type
- 802.11g: BPSK, QPSK, 16-QAM, 64-QAM, OFDM
- 802.11b, 802.11b+: DBPSK, DQPSK, DSSS, CCK, PBCC

Antennas
1 detachable external dipole antenna, 2dBi Gain (reverse SMA connector)

Transmit Output Power
- 802.11g: 13dBm (typical)
- 802.11b: 16dBm (typical)

Receive Sensitivity (for 802.11b)
(typically @ 8% PER)
- 11Mbps: -84dBm
- 2Mbps: -90 dBm

Receive Sensitivity (for 802.11g)
(typically @ 8% PER)
- 54Mbps: -66 dBm
- 48Mbps: -70 dBm
- 36Mbps: -76 dBm
- 24Mbps: -79 dBm
- 18Mbps: -83 dBm
- 12Mbps: -85 dBm
- 9Mbps: -86 dBm
- 6Mbps: -86 dBm

Operating Range *
- Indoors: 100 meters
- Outdoors: 300 meters

**** Environmental factors may adversely affect range***

Wireless LAN Security
- WEP 64/128/256-bit data encryption (user-selectable)
- Wi-Fi™ WPA

Physical & Environmental

Power Input
Through 12VAC 1.2A external power adapter

Dimensions
180 x 141 x 30 mm (device only)

Weight
380 grams (device only)

Operating Temperature
0° to 40 °C

Storage Temperature
-20° to 70 °C

Operating Humidity
5% to 95% non-condensing

Emission (EMC/EMI)
- FCC Part 15 Class B
- CE Class B (EN55022)

Safety
CSA International (CSA950, EN60950, IEC60950, UL1950)

CSA 950
UL 1950
IEC 60950
EN60950
C US

Ordering Information

ADSL Router	
DSL-G604T (v.A1)	1 RJ-11 ADSL port 4 RJ-45 10/100BASE-TX LAN switch ports 802.11g wireless LAN

To select the router with built-in ADSL modem that works best with your service provider, please consult your nearest D-Link representative or distributor/reseller.

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Europe	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Benelux	TEL: 31-10-282-1445	FAX: 31-10-282-1331
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
Iberia	TEL: 34-93-4090770	FAX: 34-93-4910795
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
Norway	TEL: 47-22-309075	FAX: 47-22-309085
Denmark	TEL: 45-43-969040	FAX: 45-43-424347
Finland	TEL: 358-9-2707-5080	FAX: 358-9-2707-5081
Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-10-8518-2533	FAX: 86-10-8518-2250
India	TEL: 91-022-652-6696	FAX: 91-022-652-8914
Middle East (Dubai)	TEL: 9714-8834234	FAX: 9714-8834394
Turkey	TEL: 90-212-335-2553	FAX: 90-212-335-2500
Egypt	TEL: 202-414-4295	FAX: 202-415-6704
Israel	TEL: 972-9-9715700	FAX: 972-9-9715601
Latinamerica	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brasil	TEL: 55-11-55039320	FAX: 55-11-55039321
South Africa	TEL: 27(0)1266-52165	FAX: 27(0)1266-52186
Russia	TEL: 7-095-744-0099	FAX: 7-095-744-0099#350
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
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RECYCLABLE
Rev. 01 (Jan. 2004)

D-Link®

2.4GHz Wireless LAN

AirPlus G

USB UNIVERSAL SERIAL BUS

Wi Fi™ The Standard for Wireless Fidelity.

Designed for Microsoft® Windows® XP, 2000, ME, 98, Windows NT®

DWL-G122

802.11g Wireless LAN USB Adapter

The DWL-G122 is a high-performance 802.11g wireless LAN USB adapter that connects your computer to a high-speed wireless LAN. This adapter simply plugs to your computer through a fast USB 2.0 interface to provide up to 54Mbps wireless speed. With industry standard interoperability, backward compatibility with 802.11b devices and plug-and-play installation, this adapter is an ideal solution for notebook and laptop PC users needing fast and standard mobile network connection.

Up to 54Mbps Transmission Speed

The DWL-G122 provides speeds of up to 54Mbps when used with other 802.11g wireless devices. This compares favorably with 802.11b adapters that offer only 11Mbps transmission.

Compatible With 802.11b

Like the 802.11b devices, the DWL-G122 uses a single 2.4GHz wireless frequency, eliminating the complexity of dualband networking. 802.11g's compatibility with existing wireless LAN standards means that you do not need to change your entire network to maintain connectivity.

Easy Migration to Higher Bandwidth

By maintaining compatibility with your existing wireless network equipment, this adapter lets you upgrade to a higher speed at the pace you want. The DWL-G122 and other 802.11g standard devices can be gradually added to your network, while the rest of your older network remains perfectly connected.

Network Security

The DWL-G122 supports Wi-Fi™ Protected Access (WPA) to provide the necessary security protocols and tools, so you can communicate with other wireless users confidentially, access sensitive information or send data that is dynamically encrypted as it's sent. WPA allows authorization and identification of users based on a secret key that changes automatically at a regular interval. Used in conjunction with a RADIUS server, WPA uses TKIP (Temporal Key Integrity Protocol) to change the temporal key every 10,000 packets. This insures much greater security than the standard WEP security, which requires the keys to be changed manually.

Fast USB 2.0 Interface

The DWL-G122 is equipped with a fast USB 2.0 port and a USB cable that connects to your computer, providing data throughput at up to 480Mbps between the network adapter and the host computer. That is about 40 times faster than the earlier USB 1.1 specification, allowing you to take advantage of the high 54Mbps wireless speed that this adapter provides.

With USB hot swap and plug-and-play capabilities, the DWL-G122 provides you with fast and easy connectivity to wireless devices and users, no matter if they use the 802.11b or the fast 802.11g standard.

Key Features

- *802.11bg wireless LAN standard, backward compatible with 802.11b devices*
- *2.4GHz frequency band*
- *Fast USB 2.0 connection to notebook/desktop computer*
- *Up to 54Mbps wireless data transfer rate*
- *User-selectable WEP 64/128-bit data encryption and WPA security*
- *Supports Windows 98 SE, 2000, ME, XP*
- *Integrated internal antenna*
- *Compact pocket-sized design, lightweight*

DWL-G122

Technical Specifications

2.4GHz Wireless LAN

Hardware

System Requirements
- Computer with available USB 2.0 interface
- Windows XP, 2000, ME or 98 SE
- 300MHz CPU or above
- 32MB memory or more

USB Interface
USB 2.0 (1.5 m USB cable with Type A plugs provided)

Wireless LAN Standard
802.11g

Data Rates
- 802.11g: up to 54Mbps (6/9/12/18/24/36/48/54Mbps)
- 802.11b: up to 11Mbps (1/2/5.5/11Mbps)

Transmission Technology
DSSS

RF Frequency Range
2400 to 2497MHz ISM band

Operating Channels
- 1 to 11 channels (FCC)
- 1 to 13 channels (ETSI)

Data Modulation Type
DBPSK, DQPSK, CCK, OFDM

Antenna
Integrated internal antenna

Transmit Output Power
- 802.11b:
  +16dBm at 11, 5.5, 2, and 1Mbps
- 802.11g:
  +10dBm at 54 and 48Mbps
  +12dBm at 36 and 24Mbps
  +14dBm at 18, 12, 9 and 6Mbps

Receive Sensitivity
- 802.11b (@ 8% PER):
  -82dBm at 11Mbps
  -87dBm at 2Mbps
- 802.11g (@ 10% PER):
  -88dBm at 6Mbps
  -86dBm at 9Mbps
  -84dBm at 12Mbps
  -82dBm at 18Mbps
  -78dBm at 24Mbps
  -74dBm at 36Mbps
  -69dBm at 48Mbps
  -66dBm at 54Mbps

Operating Range *
- Indoors: 100 meters
- Outdoors: 400 meters

** Environmental factors may adversely affect range*

Diagnostic LEDs
- Act
- Link

Security
- WEP 64/128-bit data encryption (user-selectable)
- Wi-Fi™ Protected Access

Physical & Environmental

Operating Voltage
5VDC +/- 5%

Power Consumption
- Transmission: 2350mW max.
- Reception: 1800mW max.

Power Input
USB bus power, no external AC power adapter required

Dimensions
75 x 23 x 6.3 mm

Operating Temperature
0° to 55°C

Storage Temperature
-20° to 75°C

Humidity
5% to 95% non-condensing

Emission Certification
- FCC Part 15b (Class B)
- CE Class B

Package Includes
- DWL-G122 USB adapter
- USB 2.0 cable (1.5 meters)
- Software driver & User's Manual on CD
- Quick Installation Guide

Ordering Information

DWL-G122	802.11g Wireless LAN USB 2.0 Adapter

Please specify your order as follows:

DWL-G122/NA	North America frequency
DWL-G122/EU	EU frequency
DWL-G122/CN	For use in China (China packaging)
TDWL-G122	For use in Taiwan (Taiwan packaging)

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Brasil	TEL: 55-11-55039320	FAX: 55-11-55039321
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Building Networks for People

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